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09/648,420	08/23/2000	Richard David Day	60095-0039	5648
29989 7590 07/02/2007 HICKMAN PALERMO TRUONG & BECKER, LLP 2055 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110			EXAMINER	
			TODD, GREGORY G	
			ART UNIT	PAPER NUMBER
	A 05110			

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	09/648,420	DAY ET AL.
Office Action Summary	Examiner	Art Unit
	Gregory G. Todd	2157
The MAILING DATE of this communication for Reply	appears on the cover sheet wi	th the correspondence address
SHORTENED STATUTORY PERIOD FOR RE HICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. f NO period for reply is specified above, the maximum statutory per failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the material earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. NANDONED (35 U.S.C. § 133).
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$\boxtimes$ Responsive to communication(s) filed on <u>30</u>	0 May 2007.	
	This action is non-final.	
<ul> <li>Since this application is in condition for allow</li> </ul>		ers, prosecution as to the merits is
closed in accordance with the practice unde	•	•
sition of Claims		
S Claim(s) <u>1-14 and 21-34</u> is/are pending in the second	he application.	
4a) Of the above claim(s) is/are with		
Claim(s) is/are allowed.		
Claim(s) <u>1-14 and 21-34</u> is/are rejected.		
Claim(s) is/are objected to.		
Claim(s) are subject to restriction an	d/or election requirement.	
cation Papers		
The specification is objected to by the Exam		
$\Box$ The drawing(s) filed on is/are: a) $\Box$ a		-
Applicant may not request that any objection to t	• • • • •	
Replacement drawing sheet(s) including the con		
The oath or declaration is objected to by the	e Examiner. Note the attached	Duffice Action or form PTO-152.
ty under 35 U.S.C. § 119		
<ul> <li>Acknowledgment is made of a claim for fore</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> </ul>	ents have been received.	
<ul> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the p</li> <li>application from the International Bur</li> </ul>	priority documents have been	
* See the attached detailed Office action for a	list of the certified copies not	received.
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lotice of References Cited (PTO-892)		Summary (PTO-413)
lotice of Draftsperson's Patent Drawing Review (PTO-948) nformation Disclosure Statement(s) (PTO/SB/08) aper No(s)/Mail Date		s)/Mail Date nformal Patent Application 

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#### DETAILED ACTION

#### Response to Amendment

1. This office action is in response to applicant's amendment after final filed, 30 May 2007, of application filed, with the above serial number, on 28 August 2000 in which claims 1, 2 and 8 have been amended and claims 21-34 have been added. Claims 1-14 and 21-34 are pending in the application.

#### Claim Rejections - 35 USC § 112

#### 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-14 and 21-34 are rejected under 35 U.S.C. 112, first paragraph, as

failing to comply with the written description requirement. The claim(s) contains subject

matter which was not described in the specification in such a way as to reasonably

convey to one skilled in the relevant art that the inventor(s), at the time the application

was filed, had possession of the claimed invention. Applicant has amended the

independent claims to include "allowing a customer to add at least one of the customer'

s web servers to the plurality of mirrored customer web servers via a user interface".

However, the subject matter is not described in the specification.

Claims 1, 8, 21, and 28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in

the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. For example, the subject matter "a customer paying a fee to a service for use of the network of caching servers storing static content for the customer" was not described in the specification (detailed description specifically) in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. While the background suggests a service fee, there is no context associated with the service fee, such as who would pay the service fee and who would receive the fee, as the amended claims claim.

The amendment filed 10/3/06 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "wherein a customer pays a fee to a service for use of the network of caching servers storing static content for the customer." Applicant is required to cancel the new matter in the reply to this Office Action.

#### Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-14 and 21-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chauhan (hereinafter "Chauhan", 6,115,752) in view of Scharber (hereinafter "Scharber", 6,542,964), and further in view of Lin et al (hereinafter " Lin ", 2001/0052015)

As per Claim 1, Chauhan teaches a method, comprising:

receiving a request from a user for a web page at a first web address, the first web address including the hostname (request for address) (at least col. 6, lines 45-53);

determining traffic loads of a plurality of mirrored customer web servers, each of the customer web servers storing the web page (mirrored server round trip times) (at least col. 7, lines 24-42);

determining a customer web server from the plurality of mirrored customer web servers that is appropriate for the request, the customer web server having a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (mirrored server with best route) (at least col. 7, lines 24-42);

determining an IP address of the customer web server (address name server) (at least col. 1, lines 41-53; col. 6, lines 45-63);

directing the request from the user to the customer web server (ONS routing request) (at least Fig. 4); thereafter

receiving a request from the user for content on the web page at a second web address, the second web address including the hostname (request for an address) (at least col. 6, lines 45-53);

determining service metrics of servers in a network of servers (mirrored server round trip times) (at least col. 7, lines 24-42);

determining the server from the network of servers that is appropriate for the request for content, the server having service metrics better than service metrics of remaining servers from the network of servers (mirrored server with best route) (at least col. 7, lines 24-42).

Chauhan does not explicitly teach caching servers as having cached static content thereon to further mirror data of a customer webpage and allowing a customer to add at least one of the customer's web servers to the plurality of mirrored customer web servers via a user interface.

However, the use and advantages for using such a cache server is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses many types of cache servers including POP cache servers for redirecting requests for a most economical delivery of content to an end user (at least col. 4, lines 13-26, 46-56; col. 1, lines 60-67; col. 7, lines 3-7). Scharber further teaches a user interface and associating a personal cache server with the individual user (at least col. 1, lines 13-44). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Scharber's POP cache serving into Chauhan's system as this would further enhance Chauhan's system to lessen load and traffic on mirror sites and use Chauhan's optimizing address name translating with Scharber's POP cache servers so as to geographically optimize latency between a client and static content from a server

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thereon. Further, it is very well known in the art to use proxy / caching servers to serve static content from a host to users, as Scharber teaches, and to also use mirror servers as Chauhan teaches.

Chauhan and Scharber (hereinafter " the combination ") fail to teach a customer paying a fee to a service for use of the network of caching servers storing static content for the customer. However, the use and advantages for using such a system is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Lin. Lin clearly teaches receiving compensation for use of cache servers (at least paragraphs 19-20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate charging a customer a fee into the combination's system as compensation for the generation of revenue for providing such caching services is needed and obvious as Lin teaches the clients paying a monthly fee to the ISP as the ISP (customer) would pay a fee for use of the clients to use the caching servers.

As per Claim 2.

determining load of servers in the network of servers (at least col. 2, lines 14-33; col. 3, lines 39-53);

wherein determining the server from the network of servers that is appropriate for the request, the server having a latency and a load lower than latency or load of the remaining servers from the network of servers (at least col. 2, lines 14-33; col. 3, lines 39-53).

As per Claim 3.

Chauhan and Lin do not disclose caching static content. However, the use and advantages for using such caching is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses:

determining whether the caching server includes the static content; determining a web server that includes the static content when the caching server does not include the static content (at least Scharber col. 4, lines 13-26, 46-56);

retrieving the static content from the web server that includes the static content (at least Scharber col. 4, lines 13-26, 46-56); and

storing the static content from the web server in the caching server (caching static content) (at least Scharber col. 4, lines 13-26, 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 4.

wherein determining the web server comprises:

determining traffic loads of the plurality of mirrored customer web servers, each of the customer web servers storing the static content (mirror servers) (at least col. 3, lines 39-53); and

determining another customer web server from the plurality of mirrored customer web servers that is appropriate for the request, the another customer web server having

a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (best route to mirror server) (at least col. 3, lines 39-53).

As per Claim 5.

Chauhan and Lin do not disclose caching from another server. However, the use and advantages for using such a caching protocol is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber.

Scharber discloses wherein retrieving the static content from the web server comprises:

determining another IP address of the another customer web server (peer cache or origin) (at least Scharber col. 4, lines 46-56); and

requesting the static content from the another customer web server at the another IP address (retrieving content from origin server) (at least Scharber col. 4, lines 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 6.

wherein the network of servers comprises a domain name server (at least col. 1, lines 41-67).

As per Claim 7.

wherein the request from the user for the web page is transferred from a first domain name server (local name server) (at least Fig. 4);

wherein the network of servers comprises a second domain name server (ONS) (at least Fig. 4; col. 3, lines 23-38); and

wherein the second domain name server determines the customer web server from the plurality of mirrored customer web servers (ONS determines mirror server) (at least col. 3, lines 39-53).

As per Claim 8, Chauhan teaches a method, comprising:

receiving a first request from a client DNS server to resolve a first domain name, the client DNS server receiving a request from a user of a web page address that includes the first domain name (request for address) (at least col. 6, lines 45-53);

determining load measurements of a plurality of mirrored customer web servers, each of the customer web servers addressable by the first domain name, and each of the customer web servers configured to service the request from the user (mirrored server round trip times) (at least col. 7, lines 24-42);

determining a customer web server from the plurality of mirrored customer web servers, the customer web server having a traffic load lower than traffic loads of other customer web servers from the plurality of mirrored customer web servers (mirrored server with best route) (at least col. 7, lines 24-42);

determining an IP address of the customer web server (address name server) (at least col. 1, lines 41-53; col. 6, lines 45-63);

providing the IP address of the customer web server to the client DNS server (LNS) (at least Fig. 4; col. 3, lines 39-53); thereafter

receiving a second request from the client DNS server to resolve a second domain name, the client DNS server receiving a request from the user of a uniform resource locator that includes the second domain name (request for an address) (at least col. 6, lines 45-53);

determining performance metric measurement of servers in a network of servers, each of the caching servers addressable by the second domain name (mirrored server round trip times) (at least col. 7, lines 24-42);

determining a server from the network of servers, the server having performance metrics lower than performance metrics of other servers from the network of servers (mirrored server with best route) (at least col. 7, lines 24-42);

providing the IP address of the server to the client DNS server (LNS) (at least Fig. 4; col. 3, lines 39-53).

Chauhan does not explicitly teach caching servers as having cached content thereon to further mirror data of a customer webpage and allowing a customer to add at least one of the customer's web servers to the plurality of mirrored customer web servers via a user interface.

However, the use and advantages for using such a cache server is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses many types of cache servers including POP cache servers for redirecting requests for a most economical delivery of content to an end user

(at least col. 4, lines 13-26, 46-56; col. 1, lines 60-67; col. 7, lines 3-7). Scharber further teaches a user interface and associating a personal cache server with the individual user (at least col. 1, lines 13-44). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Scharber's POP cache serving into Chauhan's system as this would further enhance Chauhan's system to lessen load and traffic on mirror sites and use Chauhan's optimizing address name translating with Scharber's POP cache servers so as to geographically optimize latency between a client and static content from a server thereon. Further, it is very well known in the art to use proxy / caching servers to serve static content from a host to users, as Scharber teaches, and to also use mirror servers as Chauhan teaches.

Chauhan and Scharber (hereinafter " the combination ") fail to teach a customer paying a fee to a service for use of the network of caching servers storing static content for the customer. However, the use and advantages for using such a system is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Lin. Lin clearly teaches receiving compensation for use of cache servers (at least paragraphs 19-20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate charging a customer a fee into the combination's system as compensation for the generation of revenue for providing such caching services is needed and obvious as Lin teaches the clients paying a monthly fee to the ISP as the ISP (customer) would pay a fee for use of the clients to use the caching servers.

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As per Claim 9.

wherein the load measurements comprise latency measurements (at least col. 2, lines 1-9, 42-57).

As per Claim 10.

wherein the performance metric measurements comprise any of: load CPU and memory measurements, HTTP response measurements, and FTP response measurements (load, ping) (at least col. 2, lines 14-33; col. 3, lines 54-66).

As per Claim 11.

Chauhan and Lin do not disclose caching static content. However, the use and advantages for using such caching is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Scharber. Scharber discloses wherein retrieving data from the caching server comprises:

determining whether the caching server includes the data (at least Scharber col. 4, lines 13-26, 46-56);

retrieving data from another customer web server from the plurality of mirrored customer web servers when the server does not include the data (at least Scharber col. 4, lines 13-26, 46-56); and

storing the data within the server (caching static content) (at least Scharber col. 4, lines 13-26, 46-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Scharber's static page caching into

Chauhan and Lin's system as this is very well known in the art as to how server caching is performed for client requested static content.

As per Claim 12.

wherein retrieving data from the other customer web server comprises:

determining the other customer web server from the plurality of mirrored customer web servers, the other customer web server having a traffic load lower than traffic loads of remaining customer web servers from the plurality of mirrored customer web servers (at least col. 2, lines 14-33; col. 3, lines 39-53); and

retrieving the data from the other customer web server (download content) (at least col. 2, lines 1-9).

As per Claim 13.

receiving a first request from a second client DNS server to resolve a third domain name, the second client DNS server receiving a request from a second user of a second web page address that includes the third domain name (at least Fig. 4);

determining load measurements of a plurality of second customer web servers, each of the second customer web servers addressable by the third domain name, and each of the second customer web servers storing data configured to service the request from the second user (mirrored servers) (at least Fig. 4);

determining a second customer web server from the plurality of second customer web servers, the second customer web server having a traffic load lower than traffic loads of other second customer web servers from the plurality of second

customer web servers; determining an IP address of the second customer web server (at least col. 2, lines 14-33; col. 3, lines 39-53); and

providing the IP address of the second customer web server to the second client DNS server (IP2) (at least Fig. 4).

As per Claim 14.

Chauhan inherently discloses more than one user using the system, and that with any user, the mirror site with the best performance characteristics will be chosen as the server to retrieve content from thereon:

receiving a second request from the second client DNS server to resolve the second domain name, the second client DNS server receiving a request from the second user of a second uniform resource locator that includes the second domain name (at least Fig. 4; col. 2, lines 10-33);

retrieving a second set of data from the caching server in response to the second uniform resource locator (at least Fig. 4; col. 2, lines 10-33); and

providing the second set of data to the user (at least Fig. 4; col. 2, lines 1-33).

Claims 21-34 do not substantially add or define any additional limitations over claims 1-14 and therefore are rejected for similar reasons.

#### **Response to Arguments**

5. Applicant's arguments filed 30 April 2007 have been fully considered but they are not persuasive. Applicant argues Chauhan, Scharber, nor Lin teach the amended features of the claims. However, as reproduced in the claim rejections: Scharber

teaches a user interface and associating a personal cache server with the individual user (at least col. 1, lines 13-44). Thus, Scharber teaches the amended features of the claims as best understood by the Examiner, as the specification lacks complying with the written description and enablement requirements.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Previously cited Shimomura et al (see col. 14, lines 15-27), Lara et al, Kenner et al, Levy, Jordan et al, Kumar et al, Jacobs et al, Amicangioli, Heddaya et al, Schuba, Bharat et al, Lewis et al, O'Neil et al, Bolton et al, Emens et al, Shah, Leighton et al, Logan et al, Rune, Sitaraman et al, Malcolm, Herriot, Kapoor, and Gupta et al are cited for disclosing pertinent information related to the claimed invention. Applicants are requested to consider the prior art reference for relevant teachings when responding to this office action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory G. Todd whose telephone number is (571)272-4011. The examiner can normally be reached on Monday - Friday 9:00am-6:00pm w/ first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregory Todd Patent Examiner

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